

CBS-4

CBS-4, Station with 4 programmable residual current relays, type A

Code: P12711. **DESCATALOGADO**

> Módules: 3
> Pre-alarm relay: Yes
> Nº relays: 4
> IΔn (A): 0,03 ...30 A
> Power supply (Vac): 230 Vac
> Delay: 0,02 ... 10 s, INS, SEL
> Mounting: DIN rail

Description

- Unit equivalent to 4 residual current protection networks. Features 4 independent programmable relays.
- Four inputs for connecting the external toroidal transformers of the **WGC / WGS** series.
- Super-immunised type-A relay with high-frequency current filtering and high immunity. True root mean square (TRMS) measure
- Compact size: 3 modules
- Features 5 independent programmable outputs (4 residual current tripping relays and 1 prealarm relay).

Application

The **CBS-4** multipoint residual current system associated with the **WGC / WGS** transformers offers smart residual current protection. Its design features guarantee maximum security and electrical service continuity, avoiding unwanted tripping. Viewing the instantaneous leakage value on the display, together with the prealarm indicators, makes it possible to obtain information on the status of lines to be protected, and to perform adequate preventive maintenance.
In addition, version **CBS-4 C** features RS-485 communications and, with the PowerStudio software, offers centralised supervision in real time, as well as keeping a log of historical data for future analysis.

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Multipoint residual current system for measurement and signalling with external transformer of the WGS / WGS series

Code: P12711.

Specifications

AC power supply

Consumption	6 VA
Frequency	50/60 Hz
Nominal voltage	110 - 230 V~ (± 20 %)

Mechanical characteristics

Size (mm) width x height x depth	52.5 x 85 x 67.9 (mm)
Fastening	DIN rail
Weight (kg)	0,26

Environmental characteristics

Protection class	IP 20 (terminals), IP 41 (rear panel)
Relative humidity (without condensation)	5 ... 95 %
Ambient temperature	-40 ... +85 °C
Working temperature	-10 ... +50 °C

Characteristics solid state contact for pre-alarm

	Max. power consumption 230 Vac : 5 VA / Umax. 275 Vac

Varistor characteristics

Maximum voltage	275 Vca

External reset input for tripping

Type	Optocoupled
Maximum power	0,7 W
Maximum voltage	230 Vca

Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300V ca
Standards	IEC 60947, IEC 60755, IEC 62020, IEC 61008

Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)

Digital relay outputs

Nominal load in AC1	1500 VA
Nominal current	6 A ~



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Nominal voltage	250 V ~
Maximum current	10 A ~
Mechanical life	10 x 10^6

Differential protection

Type	Type A ultra-immunised
Sensitivity (IΔn), A	0,03 ... 30
Delay time (tΔ)	Programmable: 0.02 ... 10sInverse curve: Instantaneous or selective
Transformer	External, WG / WGC series

Protection

LED indication	Power supply voltageEarth leakage trippingPrealarm
Measure	True root mean square (TRMS)
Circuit breaker type	Contactor or Circuit Breaker + trigger coil

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Ultraimmunized 4 channels residual current relays, type A, 3 modules with display and programmable prealarm output.

CODE	TYPE	IΔn (A)	N° relays	Pre-alarm relay	Módules	Mounting	Delay	Communications	Protocol	Power supply	Usefull diam.(mm)	Inner diameter (mm)	N° Input channels	Cable (m)	In (A)
Possibility UL on demand															
P11A70.	RGU-10A	0,03 ...30 A	2	Yes	3	DIN rail	0,1... 5 s, INS, SEL	-	-	110 ... 230 Vac					
P11A71.	RGU-100A	0,03 ...30 A	2	Yes	3	DIN rail	0,1... 5 s, INS, SEL	RS-485	Modbus RTU	110 ... 230 Vac					
P11A61.	RGU2	0,03 ... 5 A	1												
P12231.	RGE-R1	0,03 ... 3 A													
P12A32.	RGE-RL	0,03 ... 5 A	1												
P122320040000	RGE-R	0,03 ... 5 A	1												
P12204.	RG1M - 0,03	0,03 A	1												
P12214.	RG1M - 0,3	0,3 A	1												
P12A70.	CBS-40A	0,03 ... 30 A	4	Yes	3					110 ... 230 V~					
P12A71.	CBS-400A	0,03 ... 30 A	4	Yes	3			RS-485	Modbus RTU	110 ... 230 V~					
P14035.	WRU-10	0,03 ... 3 A | 0,03 ...30 A	1								28				
P14036.	WRU-10-HS	0,01 ... 0,5 A	1								28				
P14037.	WRU-100A	0,03 ...30 A	1				INS, SEL...5s	RS-485				25			
Relay mounted at 90°. It allows to reduce the mounting space															
P16021.	WGBU-90-35	0,03 ... 3 A									35				
P16022.	WGBU-90-70	0,03 ... 3 A									70				
P16023.	WGBU-90-105	0,03 ... 3 A									105				
P16024.	WGBU-90-140	0,03 ... 3 A									140				
P16025.	WGBU-90-210	0,03 ... 3 A									210				
P16011.	WGBU-35	0,03 ... 3 A									35				
P16012.	WGBU-70	0,03 ... 3 A									70				
P16013.	WGBU-105	0,03 ... 3 A									105				
P16014.	WGBU-140	0,03 ... 3 A									140				
P16015.	WGBU-210	0,03 ... 3 A									210				

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Multipoint residual current system for measurement and signalling with external transformer of the WGS / WGS series

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CODE	TYPE	IΔn (A)	N° relays	Pre-alarm relay	Módules	Mounting	Delay	Communications	Protocol	Power supply	Usefull diam.(mm)	Inner diameter (mm)	Nº Input channels	Cable (m)	In (A)
P12B01.	CBS-1600A		2	Yes	6			RS-485	Modbus/RTU	230 V ~ (± 15%)			16 (A)		
P10181.	WGC-20-SC											20		0.5	63
P10182.	WGC-30-SC											30		0.5	63
P10131.	WGS-20											20		-	63
P10132.	WGS-30											30		-	63
P10151.	WGC-25											25		-	63
P10152.	WGC-35											35		-	80
P10153.	WGC-55											55		-	160
P10154.	WGC-80											80		-	250
P10155.	WGC-110											110		-	400
P10156.	WGC-140											140		-	600
P10157.	WGC-180											180		-	800
P10158.	WGC-220x105											220 x 105		-	1250
P10159.	WGC-350x150											350 x 150		-	2000
P10160.	WGC-500x200											500 x 200		-	4000
P11121.	TP58 WGC	acc. relay > 0,3A									80 x 50				
P11131.	TP88 WGC	acc. relay > 0,3A									80 x 80				
P11141.	TP812 WGC	acc. relay > 0,3A									120 x 80				
P11151.	TP816 WGC	acc. relay > 0,3A									160 x 80				

For supply voltages other than 230 Vac, please consult us.

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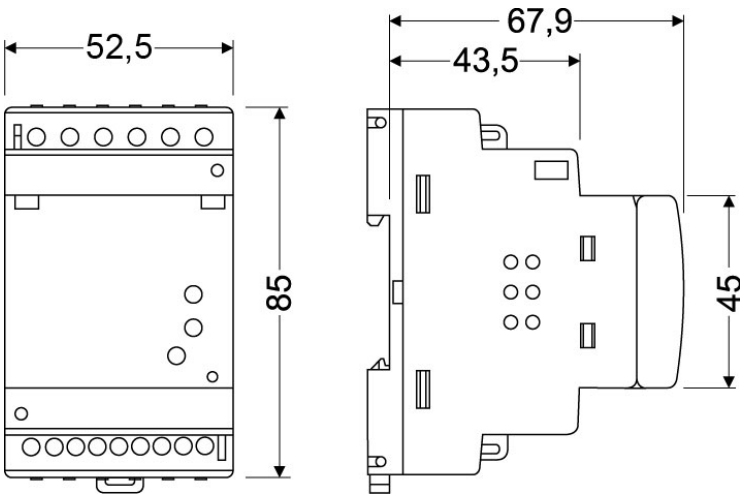
Dimensions



Connections

